AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1-27. (canceled)

- 28. (withdrawn) A method for the treatment of infectious diseases, comprising administering to a subject in need thereof an effective amount of a live culture of a non pathogenic food grade probiotic bacterium.
- 29. (withdrawn) The method as claimed in claim 28 wherein the infectious disease is a localized infection of the skin.
- 30. (withdrawn) The method as claimed in claim 28, wherein the probiotic bacterium is a non-pathogenic lactic acid bacterium.
- 31. (withdrawn) The method as claimed in claim 30 wherein the lactic acid bacterium is a Lactococcus strain.
- 32. (withdrawn) The method as claimed in claim 31 wherein the Lactococcus strain is selected from the group consisting of; Lactococcus lactis DPC3147, and Lactococcus lactis 5399, Lb. plantarum DPC4922.
- 33. (withdrawn) The method as claimed in claim 28 wherein the disease is a mastitis infection.
- 34. (withdrawn) A method for the treatment of infectious diseases, comprising administering to a subject in need thereof an

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effective amount a freeze-dried preparation of a live culture of a non-pathogenic food-grade probiotic bacterium.

- 35. (withdrawn) A method for the treatment of infectious disease comprising administering to a subject in need thereof an effective amount of a supernatant from a live culture of a non-pathogenic food-grade probiotic bacterium.
- 36. (withdrawn) The method as claimed in claim 35 wherein the infectious disease is a localized infection of the skin.
- 37. (withdrawn) The method as claimed in claim 35 wherein the probiotic bacterium is a non pathogenic lactic acid bacterium.
- 38.(withdrawn) The method as claimed in claim 37 wherein the lactic acid bacterium is a Lactococcus strain.
- 39. (withdrawn) The method as claimed in claim 38 wherein the Lactococcus strain is selected from the group consisting of; Lactococcus lactis DPC3147 and Lactococcus lactis 5399, Lb. plantarum DPC4922.
- 40. (withdrawn) The method as claimed in claim 30 wherein the disease is a mastitis infection.
- 41. (withdrawn) A method for the treatment of infectious diseases, comprising administering to a subject in need thereof an effective amount of a live culture of a non-pathogenic food-grade probiotic bacterium or the supernatant of a live culture of a non-pathogenic food-grade probiotic bacterium.
- 42. (withdrawn) The method as claimed in claim 41 wherein the infectious disease is mastitis.

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- 43. (withdrawn) A live culture of a non-pathogenic food-grade probiotic bacterium or the supernatant of a live culture of a non-pathogenic food-grade probiotic bacterium in a method of stimulation of the immune system.
- 44. (withdrawn) The method as claimed in claim 43 where the live culture or supernatant is used to stimulate PMN cells.
- 45. (currently amended) A pharmaceutical composition <u>adapted for application to localised infection of the skin</u>, comprising a pharmaceutically effective amount of a non-pathogenic live culture of a food-grade probiotic bacterium or a pharmaceutically effective amount of the supernatant of a live culture of a non-pathogenic food-grade probiotic bacterium together with a pharmaceutically acceptable carrier or diluent.
- 46. (currently amended) A method of treating a subject having or at risk of developing infectious diseases comprising administering to a <u>localised infection of the skin of a</u> subject a pharmaceutically effective amount of a non-pathogenic live culture of a food-grade probiotic bacterium or the supernatant of a non pathogenic live culture of a food-grade probiotic bacterium.
- 47. (previously presented) The method of treatment as claimed in claim 46 wherein the infectious disease is localised to the skin.
- 48. (previously presented) The method of treatment as claimed in claim 46 wherein the infectious disease is localised to an infected wound.

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- 49. (previously presented) The method of treatment as claimed in claim 46 wherein the infectious disease is localised to the urinary tract.
- 50. (previously presented) The method of treatment as claimed in claim 46 wherein the infectious disease is mastitis.
- 51. (withdrawn) The method as claimed in claim 28 whereby there is an accelerated improvement in the quality of milk from cows with mastitis.